**Abstract of the Disclosure**

A coin discriminating device has a sensor electrode and an oscillator. The oscillator is coupled to the sensor electrode. The oscillator generates an output signal with a frequency which is capacitively controllable. A frequency detector detects a frequency deviation in the oscillator output signal, caused by a variation in capacitance at the sensor electrode when a coin is positioned in the vicinity of the sensor electrode. A processing device determines the thickness of the coin from the frequency deviation. The coin discriminating device is arranged such that the variation in capacitance occurs between the sensor electrode and a surface of the coin.